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COTTON INSECT INVESTIGATIONS

B. R. Coad, in Charge

H. C. Young and T. P. Cassidy, of the field laboratory at Tucson, Ariz., reached Stillwater, Okla., on May 6, and during the present season will be engaged in cooperative work on control of the boll weevil in Oklahoma.

C. A. Bennett, Associate Mechanical Engineer, Division of Agricultural Engineering, Bureau of Public Roads, who is cooperating with the field laboratory at Tallulah, La., visited a number of points in Texas in the early part of May to obtain data on cultivator dusters there and their adaptability for use.

Dr. W. E. Hinds, State Entomologist of Louisiana, with headquarters at Baton Rouge, visited the field laboratory at Tallulah on May 21 for conference with B. R. Coad on conditions relating to the boll weevil in Louisiana.

T. P. Cassidy, at present in charge of cooperative experimental work on control of the boll weevil in Oklahoma, spent the last few days of May at Tallulah in conference with B. R. Coad on conditions in that State.

Temporary field assistants appointed and reporting for duty at the Tallulah field laboratory in May were A. C. Christopher, O. H. Graham, H. D. Cook, R. W. Bunn, J. G. Shaw, C. F. Rainwater, and R. P. Patty.

BOOKS MISSING

About the middle of May Volumes 1, 2, and 3 of "Index to literature of American Economic Entomology" were supposed to have been sent to W. A. Thomas, in charge of the field laboratory at Chadbourn, N. C. These books were purchased under Requisition No. 5806, a number which appears on the title-page of each book. Mr. Thomas received instead a book intended for another laboratory, and it is believed that the three volumes named were misdirected to a different laboratory of the Bureau of Entomology. If by chance this notice comes to the attention of anyone at whose laboratory they may have been received, it is requested that he send them direct to W. A. Thomas, Box 146, Chadbourn, N. C.

TAXONOMIC INVESTIGATIONS

Harold Morrison, in Charge

On May 7 H. S. Barber went to Wingina, Va., with J. H. Riley, of the staff of the National Museum, to pack for shipment to the Museum the collections of the late Colonel Wirt Robinson. These collections include a number of rare and unusual Coleoptera which, after they have been incorporated in the Museum collections, will be of considerable value to the Bureau specialists for purposes of reference.

W. D. Reed, of the field laboratory for the study of dried-fruit insects, Fresno, Calif., visited the Taxonomic Unit May 9 to consult hymenopterists regarding possible parasites of the dried-fruit beetle, which does much damage to figs. He also spent May 12 to 14 in the section of Coleoptera, examining the collection of Nitidulidae, particularly of the genera *Carpophilus* and *Epuraea*, to obtain records of these beetles for California.

Miss Kathleen McClure, a recent graduate of Iowa State College, has been given a temporary appointment as Senior Scientific Aid in the Taxonomic Unit.

Dr. J. G. Gehring, of Bethel, Me., spent May 12 to 14 with Mr. Barber in the section of Coleoptera of the Taxonomic Unit.

Dr. J. M. Aldrich, Associate Curator of the Division of Insects, United States National Museum, left New York on May 15 for London, where he will spend some weeks in the study of muscoid types in the British Museum. At the conclusion of this work he will proceed to northern Norway and Sweden on a collecting expedition, the object being to obtain insects of northern Europe, especially Diptera, for comparison with similar forms occurring in the northern part of North America. While in Europe Dr. Aldrich will also visit some other museums for the purpose of examining types of muscoid Diptera. He expects to return to Washington about August 20.

On May 16 C. Boden Kloss, of the Raffles Museum, Singapore, Straits Settlements, consulted with W. S. Fisher in regard to the determination of beetles, and with A. B. Gahan and R. A. Cushman about the parasitic Hymenoptera loaned from the collections under his charge.

On May 18 L. L. Williams, Jr., of Richmond, Va., discussed with C. T. Green the mosquitoes of North Dakota and South Dakota.

A. B. Champlain, of the Pennsylvania Department of Agriculture, Harrisburg, Pa., called at the Taxonomic Unit May 17 to consult A. Busck about the European corn borer.

C. E. White, of Brookline, Mass., visited the National Museum on May 22 to examine certain beetles, particularly those of the family Carabidae, in the National collection.

On May 27, Prof. J. J. Davis, of the Department of Entomology, Purdue University, Lafayette, Ind., consulted hymenopterists of the Taxonomic Unit regarding parasites of the oriental peach moth.

BEE CULTURE INVESTIGATIONS

James I. Hambleton, in Charge

The Maryland State Beekeepers' Association held a field meeting at the apiary of the Bee Culture Laboratory, Somerset, Md., on May 25. F. G. Robb and H. J. Clay, of the Bureau of Agricultural Economics, gave short addresses, as well as several members of the Bee Culture staff. Mr. Rieth, an international student at Johns Hopkins University, and one of the prominent beekeepers in the Hamburg area of Germany, gave an interesting talk on German beekeeping. A complicated patented German beehive, recently received as a gift at the laboratory, was exhibited. Mr. Rieth pronounced it too complicated, and not typical of German beehives. An interesting contest was arranged, each beekeeper demonstrating his expertness in filling a queen-bee mailing cage with bees. Ten beekeepers finished the contest, the others being disqualified as a result of being stung. The Maryland State Beekeepers' Association awarded the prizes, a queenbee going to Mr. Rieth, and Mr. Aman receiving a certificate as the most expert Maryland beekeeper. Members of the Bee Culture staff demonstrated some of the work at the laboratory.

In connection with the 51st annual meeting of the American Library Association, held in Washington on May 13 to 18, the library staff of the United States Department of Agriculture served luncheon on May 15 to the members of the Agricultural Libraries Section. This luncheon was of particular interest in that all the food for it was produced and prepared in the Department. Honey, furnished by the Bee Culture Laboratory, occupied a prominent place on the menu, orange blossom, white clover, and tulip-tree honeys being used. The ice cream, made by the Bureau of Dairy Industry, was flavored and sweetened entirely with orange-blossom honey. The market for ice cream flavored with orange-blossom honey appears exceptionally bright.

Miss Vajen E. Hitz has been temporarily transferred from the library of the Department of Agriculture to the Bee Culture Laboratory to prepare a catalogue of the beekeeping literature there. It is planned to issue the catalogue in mimeographed form, so that those interested may obtain a record of the literature on beekeeping in the Bee Culture library. Several beekeeping libraries have already made valuable contributions to the Bee Culture library, and have generously offered to assist in making available at Washington as complete a collection of literature on beekeeping as possible.

FOREST INSECT INVESTIGATIONS

F. C. Craighead, in Charge

Early in May Dr. Craighead spent two days at Syracuse, N. Y., consulting with Dr. M. W. Blackman and Dr. H. J. MacAloney about the work on the white-pine weevil.

J. C. Evenden reports that field activities have begun in Montana with the initiation of several control projects of the Forest Service. The late season and considerable snow have somewhat handicapped operations.

J. E. Patterson reports that, although snow still lies on the ground in the Crater National Park, the control of the mountain pine beetle by the sun-curing method has been progressing favorably, and that unusually high temperatures for this season of the year have been obtained under the bark of the felled trees.

Contributions from the Gipsy-Moth Laboratory

Dr. H. L. Dozier, Entomologist of the Delaware Agricultural Experiment Station, in a letter dated May 9, 1929, wrote as follows concerning the use of fish oil as an adhesive in sprays: "We have tried out the fish oil in most of the combinations and have found it compatible and very satisfactory. Practically every grower who has used this material in our State is not only satisfied but rather enthusiastic over same. In fact, to my own knowledge there have been twenty-one barrels shipped to this State for use in orchard work this season. I have had inquiries in regard to the material from eighteen States and Canada." Dr. Dozier became interested in the use of fish oil as an adhesive through experiments carried on by C. E. Hood, of the Gipsy Moth Laboratory.

Messrs. Collins, Hood, Barnes, and Potts, of the Gipsy Moth Laboratory, discussed various matters having to do with insecticides with Dr. T. J. Headlee, of the New Jersey Experiment Station, when he visited Boston on May 10.

Visitors to the Gipsy Moth Laboratory in May were Dr. H. W. Allen and G. J. Haeussler, of the field laboratory at Moorestown, N. J., May 2; B. J. Landis, of the field laboratory for investigations of the Mexican bean beetle, Columbus, Ohio, May 4; R. W. Burrell, of the Japanese Beetle Laboratory, Moorestown, N. J., and Prof. J. A. Manter, of the Connecticut Agricultural College, and two of his entomological students, May 7. Mr. Landis spent several days at the laboratory familiarizing himself with the work being done with parasites.

Dr. J. R. Hobbs, a student at the Harvard Medical School, has received a temporary appointment, beginning May 1, to study certain diseases of the gipsy moth.

Four college students have been given employment at the Gipsy Moth Laboratory for the summer season, R. W. Lamson, of Syracuse University, A. L. Brady, of Cornell University, R. K. Voorhees, Florida Agricultural College, and J. G. Schread, Connecticut Agricultural College. Mr. Lamson reported March 1, and the others in May.

DECIDUOUS-FRUIT INSECT INVESTIGATIONS

A. L. Quaintance, in Charge

Visitors in May to the peach-insect field laboratory, Fort Valley, Ga., included Jacques R. Faugeras, of the National Institute of Agronomy, Paris, France, B. P. Livingston, Director of the Alabama State Bureau of Plant Industry, P. H. Miller, in charge of the Arkansas State Plant Board, J. C. Dunegan, of the U. S. Bureau of Plant Industry, Fayetteville, Ark., M. C. Swingle, of the Japanese Beetle Laboratory, Moorestown, N. J., M. S. Yeomans, Georgia State Entomologist, and John B. Gill, of the Georgia State Board of Entomology.

Oliver I. Snapp spent the week of May 20 to 26 in and around Orlando, Fla., studying the situation as to the Mediterranean fruit fly.

Contributions from the Japanese-Beetle Laboratory

On May 13 and 14 four horticultural commissioners from various counties in California, A. H. Call, Santa Paula, John P. Coy, San Bernardino, R. R. McLean, San Diego, and A. A. Brock, Santa Ana, visited the laboratory.

Dr. W. J. Schoene, Blacksburg, Va., and Dr. S. B. Fracker, of the Plant Quarantine and Control Administration, Washington, D. C., visited the laboratory on May 21.

A. C. Fleury, Chief of the Quarantine Division, Sacramento, Calif., spent a part of May 25 looking over the investigational work of the laboratory on the Japanese and Asiatic beetles.

Prof. John J. Davis, Lafayette, Ind., arrived at Moorestown May 30, for conference and to collect parasites of the oriental peach moth. He will try to establish in Indiana certain native parasites now occurring in New Jersey.

TRUCK-CROP INSECT INVESTIGATIONS

J. E. Graf, in Charge

W. A. Thomas, in charge of the field laboratory at Chadbourn, N. C., visited Washington May 3 to 6, to discuss the work being conducted at that laboratory.

B. J. Landis, Columbus, Ohio, who will shortly leave for Mexico to investigate parasites of the Mexican bean beetle, visited the Gipsy-Moth Laboratory, Melrose Highlands, Mass., the Corn-Borer Laboratory, Arlington, Mass., and the Japanese-Beetle Laboratory, Moorestown, N. J., early in May to study methods of rearing and handling parasites. He visited Washington May 17.

Temporary appointments as field assistants have recently been given C. Mattsson and H. E. Dorst, assigned to duty at Richfield, Utah, H. A. Waters and A. C. Cole, Jr., assigned to duty at Twin Falls, Idaho, Joseph Hamilton, assigned to duty at Tempe, Ariz., and L. L. Odom, assigned to duty at Grand Bay, Ala.

CEREAL AND FORAGE INSECT INVESTIGATIONS

W. H. Larrimer, in Charge

C. M. Packard, in charge of investigations of the Hessian fly, with headquarters at West Lafayette, Ind., visited the field laboratory at Carlisle, Pa., on May 20 and 21, and the Washington office, on his way home, on May 22 and 23.

Stewart Lockwood, formerly in charge of the field laboratory at Billings, Mont., has resigned from the service, effective May 6.

During the week of May 15 D. W. Jones and Chas. A. Clark, of the field laboratory at Arlington, Mass., visited the field laboratories at Silver Creek, N. Y., Sandusky and Toledo, Ohio, and Monroe, Mich., on business relating to parasites of the European corn borer. On May 22 they left the region about Lake Erie and returned to Arlington.

Gordon W. Haug and Frank Lieberman have accepted three months' appointments as field assistants at Salt Lake City, Utah, effective May 27 and May 15, respectively.

Dr. W. H. Larrimer spent May 24 to June 1 driving through the districts infested by the European corn borer in Ohio, Pennsylvania, and Michigan, in search of first-hand information on the status of the clean-up this year, as compared with that of former years.

INSECTS AFFECTING MAN AND ANIMALS

F. C. Bishopp, in Charge

On May 20 D. C. Parman returned for a short period to his official headquarters at Uvalde, Tex., from Coachella, Calif., where he has been engaged in studies of the eye gnat, a species of *Hippelates*.

On May 9 W. E. Dove arrived in Washington from his station at Dallas, Tex., to consult bureau officials and specialists in the National Museum. He returned to Dallas after spending two weeks in Washington.

Upon the invitation of Captain R. G. Heiner, Marine Corps, U. S. Navy, F. C. Bishopp gave an illustrated lecture on flies and their control before a class of naval and marine medical officers at Quantico, Va., May 14. The class was then conducted over the reservation for a study of the local situation as regards flies and was given instruction as to how different practical problems might be met.

J. L. Webb made a trip to New York on May 14 to consult with a representative of the Sumatra Caouchouc Company, the principal company engaged in exporting derris roots from Sumatra.

LIBRARY

Mabel Colcord, Librarian

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